

CLAIMS

Please cancel claims 1-3 without prejudice.

Please add the following new claims to the application:

4. A method for optimizing a network's configuration, comprising the steps of:

collecting pilot strength measurements for each base station included in said network;

saving said pilot strength measurements in a database, wherein said pilot strength measurements are saved regardless of the measurement value;

requesting a majority of said saved pilot strength measurements from said database;

compiling said pilot strength measurements for said each base station; and

modifying the transmission characteristics of said each base station in accordance with said compiled pilot strength measurements.

5. The method in accordance with claim 4, further comprising the step of using said compiled pilot strength measurements to simulate a cellular network.

6. The method in accordance with claim 4, wherein compiling said pilot strength measurements comprises the steps of:

determining an average energy for said pilot strength measurements for said each base station;

determining a maximum energy for a one of said pilot strength measurements for said each base station; and

determining a minimum energy for a one of said pilot strength measurements for said each base station.

2 7. The method in accordance with claim 6, further comprising
the steps of:

4 analyzing the data compiled for said each base station to determine
if said data indicates that a reliable communication between a mobile
station and said each base station may be maintained;

6 if a reliable communication with said mobile station cannot be
maintained by at least one of said each base station, then:

8 determining if said at least one of said each base station is in
a neighbor list of said mobile station; and

10 communicating to said mobile station to remove said at least one of
said each base station from said neighbor list.

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cont.
2 8. The method in accordance with claim 4, wherein modifying
the transmission characteristics of said at least one base station comprises
changing the location of said at least one base station.

2 9. The method in accordance with claim 4, wherein modifying
the transmission characteristics of said at least one base station comprises
adjusting the spatial characteristics of an antenna used to transmit a signal
4 from said each base station.

2 10. A method to optimize a network's configuration, comprising
the steps of:

4 setting a set of parameters of a cellular network;

4 operating said cellular network for a predetermined interval;

6 measuring strengths of pilot signals received at a mobile station
and caused by said operating;

8 communicating a pilot signal strength message from said mobile
station to another station regardless of the strength of pilot;

10 saving data from said received pilot signal strength messages
during said predetermined interval, said messages collected and saved
regardless of said pilot signal strength; and

12 revising said set of parameters in accordance with said data from
received pilot strength measurement messages.